

**WHAT IS CLAIMED IS:**

1. A method, comprising;  
generating dynamic control values from dynamically selected colors using an existing characterization for a device; and  
producing a characterization target for the device having color regions corresponding to the dynamic control values.
2. A method as recited in claim 1, further comprising:  
combining predetermined fixed control values for the device with the dynamic control values and producing the characterization target from the dynamic control values and the predetermined fixed control values.
3. A method as recited in claim 1, wherein said generating comprises:  
providing dynamic colorimetric values for the dynamically selected colors; and  
determining the dynamic control values for the colorimetric colors using the existing characterization.
4. A method as recited in claim 3, wherein said determining comprises;  
determining relative colorimetric values from the dynamic colorimetric values using a white point of the existing characterization; and  
determining the dynamic control values for the relative colorimetric values using a profile transform of the existing characterization.
5. A method as recited in claim 1, wherein the producing comprises providing the color regions in a topology having one of verification and device behavior characteristics.

6. A method as recited in claim 1, wherein the existing output device characterization is an ICC profile.

7. A method as recited in claim 1, wherein the existing output device characterization is a characterization for a similar device.

8. A method as recited in claim 1, wherein the existing output device characterization is a characterization for a group of similar devices to which the device belongs.

9. A method for creating a dynamic output device characterization target using an existing characterization for the device, comprising;

choosing a set of important colors;

obtaining a set of colorimetric values corresponding to the important colors;

generating a set of dynamic control values by converting the colorimetric values to device control values using the existing characterization; and

producing the characterization target having patches corresponding to the device control values.

10. A method as recited in claim 9, wherein the existing output device characterization is an ICC profile.

11. A method as recited in claim 9, wherein the characterization target contains patches corresponding to a set of fixed control values.

12. A method, comprising:

producing predetermined sample control values for the device that uniformly sample a device color space;

generating dynamic control values from dynamically selected colors using an existing characterization for a device;

combining the predetermined control values for the device with the dynamic control values; and

producing a characterization target for the device having color regions corresponding to the dynamic control values and the predetermined control values.

13. A method, comprising:

producing predetermined sample control values for a device that uniformly sample a device color space of the device;

dynamically choosing important colors;

obtaining dynamic colorimetric values corresponding to the important colors;

generating dynamic control values by converting the colorimetric values to device control values using an existing ICC characterization for the device, comprising:

determining relative colorimetric values for the dynamic colorimetric values using a white point of the existing characterization; and

determining the dynamic control values from the relative colorimetric values using a profile transform of the existing characterization;

combining the predetermined control values for the device with the dynamic control values; and

producing a characterization target for the device having color regions corresponding to the dynamic control values and the predetermined control values comprising the color regions in a topology having verification and device behavior characteristics.

14. An apparatus, comprising:

a source for a characterization for a device; and

a computer obtaining predetermined fixed uniform sample control values for the device, producing dynamic control values from dynamically selected colors using the characterization, and producing a characterization target for the device having color regions corresponding to the dynamic control values and the predetermined fixed uniform sample control values.

15. A computer readable storage controlling a computer by obtaining predetermined fixed uniform sample control values for the device, producing dynamic control values from dynamically selected colors using an existing device characterization, and producing a characterization target for the device having color regions corresponding to the dynamic control values and the predetermined fixed uniform sample control values.

16. A characterization target, comprising:  
first color regions having colors for predetermined fixed uniform sample control values for a device; and  
second color regions having dynamic control values from dynamically selected colors produced using an existing characterization for the device.

17. A target as recited in claim 16, wherein the colors are color patches arranged in one of balanced neutral colors patches placed in the center of the characterization target and colors decrease in code value in a snake pattern, near neutral color patches placed alongside of the center, twelve color ramps of color patches with code values at equal code value increments placed around the center, near white ramps color patches placed around the center, visual neutral color patches replicated in four corners, same hues in a same region, color patches arranged in a color wheel and randomly.

18. A target as recited in claim 16, wherein the first and second color regions are subdivided into distinct sub-targets.

19. A target as recited in claim 18, wherein the colors on the sub-target have one of similar density levels and similar hue.

20. A target as recited in claim 18, further comprising a sub-target identifier.